

You Can Shape How We Look at Megacities!



Project Title	You Can Shape How We Look at Megacities!
Project Summary	Communications, information, goods, services, money, and people flow in and out of megacities every day. As part of this project, you will analyze open-source online data to map, model, and draw conclusions on specific categories of flows in megacities to support Department of Defense operations.
Country	United States
Country/Region of Focus	Global

Project Description

This project will describe megacities and urban environments using a standardized set of models. To do this, we desire a suite of models, systems dynamics or otherwise, to assist us in describing and analyzing the megacity. We use the term model to describe a construct of the relationship between inputs and outputs to a system, i.e., the megacity, and the pathways between them. The model may be qualitative to quantitative, and addresses the major drivers of the aspect the researcher is observing. The information from this analysis is used to help identify critical nodes within the system and the impacts of changes to the system, such as natural disasters, civil conflict, or terrorism. This project requires the researcher to conduct a literature review of models of various aspects of megacities, apply two or more existing models of an aspect of the megacity to a chosen set of cities, and develop a model of their own.

Required Skills or Interests

Skill(s)

Analytical writing

Data analysis

Data visualization

Design thinking

Research

Additional Information

The researcher will provide a short written report for each of the three tasks in a pre-specified format; literature review; existing models, and self-developed model.

The aspects of the city to model include: economics and commerce, human services, governance and the judicial system, energy, communications and information, transportation and distribution, and human movement patterns.

You'll be working with a team of up to two other virtual interns doing similar research, with each intern focusing on a different region.

Language Requirements

None